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The Students of Worcester Polytechnic Institute

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The Tech News

Vol. 62

Worcester, Massachusetts

Tuesday, October 26, 1971

No. 21

Dean Price Retires After Serving 41 Years

M. Lawrence Price has requested that he be relieved of his duties as Vice President and Dean of the Faculty on the advice of his physician.

Dean Price's request, announced at meetings of the WPI faculty and board of trustees, has been granted and becomes effective immediately. His career in education began here when he graduated from WPI in 1930 with a bachelor of science degree in mechanical engineering.

While an instructor, he received a master of science degree in mechanical engineering in 1934 and in 1958 was awarded an honorary doctor of engineering degree.

Before being named vice president in 1962, Dr. Price had served as dean of faculty since 1957. Previously he was an assistant professor and professor of machine design, professor of mechanical engineering and subsequently head of that department.

He has been a member of the governing board of Worcester Junior College for 15 years and a member of the Massachusetts State Board of Registration of Professional Engineers and Land Surveyors since 1960, serving a term as chairman and vice chairman, respectively.

Dr. Price has been an engineering consultant for more than 40 years in the analytical, experimental, and developmental aspects of machine design, stress analysis, metallurgy, prevention of fatigue failure, mechanisms, lubrication, vibration, and mechanical power transmission equipment.

Since 1950, he has concentrated on consultation and research involving cold forming of precision shapes.

He is a member of numerous professional organizations, among them the American Society of Mechanical Engineers, American Society for Engineering Education, American Gear Manufacturers Association and others in whose conferences and workshops he participated for many years. He was a co-founder of the original Photoelasticity Conference from which evolved the present Society for Experimental Stress Analysis, now worldwide and with a membership of several thousand. He served as president of the society in 1939-40, when he was attaining wide recognition in the field of photoelasticity, which involves the use of polarized light to observe stress concentration in models made from plastics.

Election Results

The results of last week's election of freshman class officers are the following: Pres.-Wayne Chistolini, of Morgan Hall 207; V.P.-Wilfred Lowther, Morgan 323; Sec.-Judith Nitsch, Riley 112; Treas.-Greg Jundanian, Morgan 439; and Student Government Representative - Howard Kanare, Morgan 303. Wayne Chistolini hopes that the officers will be able to start meeting on a weekly basis to begin formulating plans for the upcoming year. Wayne is from Springfield, Mass., and is a member of the crew team.

Professor David Todd of the Chemistry Department was elected a faculty representative to the Tech Community Council in a very close contest on Thursday. Dean William Trask was elected the administration's representative. Dean Trask is the Associate Dean of Student Affairs and in charge of placement.



Dean Price retires after serving as vice-president for nine years.

In making the announcement, President George W. Hazzard said, "Few men command the respect and admiration which Dean Price enjoys from all who have ever come in contact with him. His departure from active participation in the day-to-day affairs of the college will be a deep personal loss to me for I have relied on his wisdom and judgment in so many matters in the two years I have been president of WPI."

Court Hears 1st. Case

Dean Bowsher of BJC recently brought before the WPI Student Court a case in which fourteen brothers of Phi Kappa Theta were charged with uninvited entry and the creation of a disturbance at Cedar Hall on the night of September 26. Mrs. Bowsher was referred to the Court by Dean Reutlinger. John Swanson of PKT represented the defense.

According to Dean Bowsher, three boys were admitted to the dorm at about 10:00 p.m. One of them proceeded to let his compatriots in by the back door. A disturbance followed. Although no harm or damage occurred during this instance, Becker wished to discourage future incidents. Mrs. Bowsher stated that the College would no longer tolerate such raids as they posed a safety and security problem, cause damage, and constitute an invasion of privacy.

When questioned, Dean Bowsher testified that the defendants' names were procured by the president of Cedar Hall. The dormitory president admitted that the list was not obtained from eyewitnesses, but was supplied by the fraternity.

In presenting his case for the defense, Swanson began by moving for the dismissal of charges on the grounds that the names of the defendants were obtained under false pretenses. The motion was denied. Swanson went on to say that the incident in question was

(Cont. on Pg. 3, Col. 4)

Many Parents Expected To Participate Oct. 30

Nine hundred to a thousand people are expected to be on hand for WPI's Parents' Day to be held this Saturday, Oct. 30. The annual event, sponsored by the Society of Families, has several new twists for 1971.

Unlike the previous Freshman Parents' Days usually held in the fall, this program is designed for the families of students in all four classes. Also, for the first time, parents will get a taste of just what their students are going through (as far as course work goes). A collection of "Micro-Courses" will introduce parents to current areas of concern in science, technology and the humanities.

Participants will be able to choose one or more of nine different presentations ranging from "Oil from Solid Waste, and Food Synthesis" by Dr. Weiss to "What We Should Know About Russia and China" by Prof. Flynn.

Advanced registration has indicated a high level of interest in these courses. Although parents were requested to sign up for the courses they desired, the lectures will be open to anyone on a walk-in basis.

The program for the day includes registration in Morgan at 9:00, welcoming remarks by several WPI dignitaries in Alden at 10:00, and "micro course" offerings from 10:30 to 12:30. A tailgate picnic on the quadrangle and a varsity football game with RPI will close out the day's activities. Campus buildings and fraternity houses will be open for most of the day.

Chem. Eng. Profs. Receive Cancer Research Grant.

Recently, two professors in the Chem Department, Dr. Herbert Beall and Dr. C. Hackett Bushweller, received a National Cancer Institute grant which will help finance their studies of boron compounds in the treatment of cancerous tumors.

The grant, which was applied for in 1969, amounts to \$32,500 for the first year and will be used to buy new equipment and chemicals, as well as for support of two grad students and partial payment of both professors' salaries.

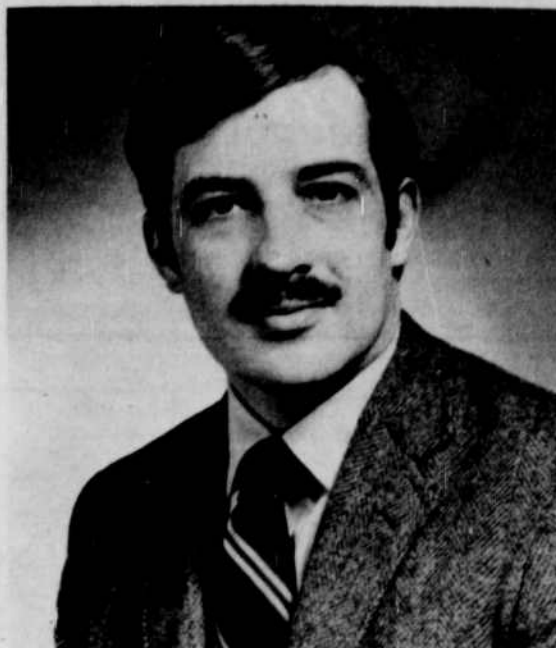
Boron isotopes are used to destroy malignancies because they emit cell-destroying gamma rays. These, when used to irradiate tumors from outside the



Dr. Herbert Beall is co-recipient of a National Cancer Institute Grant.

body, destroy the growths but also the tissue in between. Drs. Beall and Bushweller, by combining their specialties - Beall being a boron chemist and Bushweller an expert in the use of NMR (nuclear magnetic resonance which is a method of structural analysis) -, hope to come up with a borane-anion complex which can be injected into the body and destroy the tumor from within. Boron compounds are usually toxic and their first task will be to find which can be safely injected. Another problem is that of tumor selectivity. This means that, once in the bloodstream, the isotope must locate only the cancerous tissue and not destroy good tissue.

Once a certain compound is synthesized and analyzed, it will be sent to Dr. Albert Soloway at Northeastern University. Dr. Soloway will test each material on laboratory specimens - primarily rats and mice - which have induced cancerous tumors. The results from each test will be sent back to WPI so that reasons why a certain substance works or doesn't work can possibly be linked to something in its molecular structure.



Dr. C. Hackett Bushweller will continue cancer research with Dr. Beall.

Editorials

The Forgotten Man

When Sanford Riley was built in 1926 the campus began a trend toward resident students that is still going on today -- new "towne house" style living centers are projected for the near future. Thus for the first sixty years of its existence, WPI catered exclusively to commuter students. Later, after Riley, Daniels, Morgan, and Stoddard increased the capacity of school operated, on-campus living, and that's good. Now that the Tute is in the landlord business, it has occurred to the Office of Student Affairs that the quality of dormitory living might be improved somewhat if the social aspects were enlarged, and that's nice. But where does this leave the commuter students?

During freshman year the commuters make a few friends among the dorm residents, some even pledge fraternities. In the years that follow little trace can be found of the commuters. They come in for classes, then take off for home; and why not, since there is no real attraction on campus to keep them around after 4:00 p.m. We talk about student participation, but nothing is ever said about the commuter, The Forgotten Man. The challenge goes to the TCC, the Dorm Committee, the Faculty Committee on Student Life and whomever else may be concerned -- extend the "community" we hear so much about to include the non-residents. Make it easy for commuters to fit into the mainstream of life at WPI, but you had better start fast because this year's frosh are well along the way that the classes before them went. Let's remember the forgotten man!

T. T.



"Death Anticipated"

I refer you to the 15 October issue of the Northeastern (University) News. There on page one unreason triumphs for all to see and grieve over. Writes the (meet her if you can) very pretty Joanne McMahon, "Rev. Ralph Abernathy, speaking in Alumni Auditorium last night, asked his audience to 'face the Nation' and to 'seize power in America by marching on the ballot boxes in 1973'. Abernathy said he did not want to see students being hit by bullets, but to see students hitting the politicians with ballots. Abernathy called on President Nixon, Vice President Agnew, Atty. Gen. Mitchell, George Wallace, and Gov. Rockefeller to 'tell the truth to the people' about Attica and Kent State! He asked Nixon to explain how his economic 'freeze' is really a 'squeeze' on poor people to 'please his rich friends.' And so on.

Contrast that with another story on the same page about an upcoming visit to be made by (judging from the description) America's own version of Heinrich Himmler: "United States Attorney General John N. Mitchell will be on campus Oct. 23 to officially dedicate John A. Volpe Hall, the Criminal Justice side of the Knowles building...As news of Mitchell's impending visit circulated through the university, Student Council Tuesday passed by a vote of 16 to 1 a resolution mandating the Executive Council 'to inform President Knowles in writing...that he (Mitchell) is unwelcome by the student body' and request Mitchell's invitation be withdrawn." "The motion, submitted by councilor John Hanson, declared that Mitchell's presence on campus would be an 'insult' to

the student body, since '...the Attorney General has constantly attempted to suppress legitimate protest and dissent...' And (sigh) so on.

One man, a man of the cloth, is permitted to urge the President of the United States and the U.S. Attorney General (along with George Wallace yet) to break down and admit the dark, awful truth about Attica and Kent State, while simultaneously the Student Council at Northeastern, lacking the outright power to ban Mitchell from visiting, urges that he be uninvited to the Northeastern campus, fearing, perhaps, that the fellow just might tell those dark secrets Abernathy hinted at. ("Yes, it was all a conspiracy. And, ladies and gentlemen, if you are under 30 years of age, consider yourself under arrest.")

Anyway, the President of the school over there has gotten upset with some of the manifestations of the one-sidedness of it all, and now threatens the existence of the Northeastern News desk perhaps just for starters. He has appointed a Student Publications Committee to review the past editorial rhetoric of the New News, and to recommend how fairness might be reclaimed for its pages. This being: one unhappy, senseless, counter-productive effect of an absence of decent Conservative dissent at Northeastern. Abernathy plays the God-fearing demagog, and no one even burps. Mitchell's presence on their campus is read into the history of their school as an "insult". I wonder, in passing, over the meaning of the impending death of Crossfire.

Confronting issues which have received little effective attention looking deeply into the present; examining our existence; plunging into an infinite reservoir of solutions; solving problems in unexpected ways;

"TODAY'S PROPHET"

by

Joseph G. Heard

Sunday, Oct. 31

7:30 p.m.

W.P.I. Library

Seminar Room

Don't kid yourself; you really can't afford to miss this lecture.

The Tech News

Vol. 62 Tuesday, October 26, 1971 No. 21

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Tech News Office Tel. 753-1411 Ext. 245

Special Appearance

FRIDAY the 13th
Coffeehouse

Presents
The ZOTOS BROTHERS

This Friday
Night Oct. 29th
Wine sold

FREE

Refreshments served

Where Have All The Marchers Gone?

There's something different about the W.P.I. campus this year. It's nothing physical, nothing you can really put your finger on, and it seems that ours is not the only campus so afflicted. Call it frustration, despair, apathy or preoccupation but, for one reason or another, something's missing in the consciousness of American college students, something that has been a very predominant issue in the past few years -- one Viet Nam war.

It wasn't long ago that students across the country were caught up in the fervor of a sincere anti-war effort. But the moratoriums and strikes have left the scene. The students are getting back to the books. Has the situation changed so drastically in the past 18 months? Not really. The U. S. is still in Viet Nam and men are still being killed there, both ours and theirs. Yet, we have been witnessing the slow death of the campus peace movements. One rarely hears the war even talked about anymore, whereas before this mysterious change in mood, it was a popular subject for debate on almost any occasion.

Granted the administration is trying to

wind down the action somewhat but the end is still not in sight. Have we grown so insensitive to the situation, so unconcerned about the remaining troops and POW's that we are content to let the thing run its course? Or have our attentions been directed toward other matters, perhaps without our even being aware of it? Now, there's a possibility.

Mr. Nixon has everyone talking economics these days. Whether this problem deserves it or not, it is receiving the majority of our national efforts. The energy that was once used in fist clenching and shouting "peace now" is today being dissipated in discussion over the wage-price freeze or young voter registration drives. Yes, these are important issues, but where are the priorities?

It seems the symptoms of unconcern have reached us all. It remains to be seen whether or not the feeling will return. Perhaps it will take an invasion of Thailand to wake up the campuses once again. But credit the administration with sense enough to let sleeping dogs lie. If only things will stay quiet until after the election...

J.C.



Student Government Meeting

Tuesday, Nov. 2,

7:30 p.m.

in Daniels Lounge.

THE FACULTY PEN

by Al Weiss



Dishonored Societies

In 1948, while I was an undergraduate Ch. E. at the University of Pennsylvania, there was an inequitable situation with respect to honor fraternities. Academically distinguished B.S. chemists were ineligible for Tau Beta Pi because they were not engineers. They were ineligible for Phi Beta Kappa because they were not B.A. candidates. I and some ChE. friends who were in Sigma Tau and Tau Beta Pi felt so strongly that no undergraduate should be denied recognition of his scholarly achievement that we formed a club -- "The Harrison Society" -- whose constitution was written to effect bringing a chapter of Phi Lambda Upsilon to Penn Campus. We were successful, and about four years later I returned to have the satisfaction of being initiated as a charter member of the new Phi Lambda Upsilon chapter.

If my memory serves me right, at that time the top 20% of the Chemists and Chemical Engineers were scholastically eligible. Our goal was "How can we get a person in?" not "How can we keep him out?" If a person's grades were a little low and we could rationalize that this was a result of involvement in school activities, we brought him in anyway. Since it was an honor society for the recognition of academic achievement, we were pleased to have not only our brilliant classmates, but also graduate students and teachers join us in a peer group whose justification for existence was to provide earned recognition.

I was then a member of three honor fraternities: Sigma Tau, Tau Beta Pi, and the Harrison Society. In no one of these did we exclude the greasy grinds, the nasty guys, the loners, the guys with the wrong school politics, or even the campus left-wingers. We set our standards on the basis of scholarly excellence, and moral integrity and ethics. A student who had earned the right to enter an honor society and to have his achievements formally recognized could not be denied that right. After all, for what other purpose did the societies at Penn exist? Certainly they did not exist for members' chest thumping.

How different things are at WorcesterTech. Last year, Phi Lambda Upsilon subjected the academically qualified top members of the class to a humiliating "smoker". The members promenaded among brilliant students who met entrance requirements and passed judgment on the basis of some driveling involving personality and activities. This year they had the junior class do a "peer" rating, to choose on the same basis. I regard those members as presumptuous and arrogant. Either a man is qualified or not. Either Phi Lambda Upsilon is an honor society or a BMOC club. If the latter, it should change its name and withdraw from the National, rather than soil a prestigious organization's reputation. I heard that there is now even talk of dropping WPI's Phi Lambda Upsilon scholastic requirements from 3.0 to 2.5 QPA, well below the honors level, and well out of the philosophy of the National.

One faculty member told me, in justification of the fact that there were only about 6 members (there are 130 ChE. and Chem juniors and

seniors, let alone graduate students) that "you must be very careful whom you let in or else you will get people who won't come to meetings and who only want to put Phi Lambda Upsilon on their resumes." More driveling.

The activity of honor fraternities is to make more members and the goal is to provide their members with the prestige of being a member. I hope the new group in Phi Lambda Upsilon does something to open up the organization and bring in the fine scholars who have been routinely excluded by past members.

I have regarded Tau Beta Pi at Worcester Tech as a campus disgrace and as a disservice to our school. The upper one-fifth of the junior class (69) and the upper one-eighth of the senior class (56) are academically qualified. As of this writing, I believe that now

Ineligible students don't care. The faculty and administration cannot and should not try to control the activities of student clubs. I think if there is not great and conscious immediate effort on the part of Tau Beta Pi and Phi Lambda Upsilon to bring chapter sizes to levels commensurate with the size of the student body at W.P.I., then the student court should step in. I recommend that the student government direct that an investigation be instituted by the court, and that an assessment be made as to whether or not the honor societies on campus have subverted their charters. Those that have should be pressed to either serve a scholarly function at W.P.I. or be required to leave campus.

Al Weiss
Professor, CHE



Dr. Al Weiss

there are five undergraduate seniors in the chapter. So far as I know, Tau Beta Pi did not even bother to admit graduate students or faculty. They have routinely black-balled top men in their classes and in the school. What right did a tiny group of snobs have to keep qualified, honestly gifted W.P.I. students out.

The national Tau Beta Pi has debated hot and heavily whether the organization should change its face to a BMOC club and weight activities etc. heavily in qualifications. The national conventions of both 1969 and 1970 voted to retain Tau Beta Pi's traditional membership requirements - distinguished scholarship and exemplary character.

I submit that in the past, the W.P.I. chapter of Tau Beta Pi was a conceited, narcissistic in-group dedicated to standing in front of a mirror to define perfection - and thus membership qualifications. The present members and the students that will be admitted have a mandate to try to change Tau Beta Pi into a meaningful honor society serving W.P.I. and its greasy grind ugly genius students, rather than just themselves.

I have limited my criticism to fraternities that I belong to. On the other hand, I think the whole matter of honor societies is one that the student government should address itself to. Are some of them now a disservice to W.P.I.? There is nothing wrong with not being a member of Tau Beta Pi if there is no Tau Beta Pi on campus.

The situation is a dilemma. Eligible students who are excluded cannot fight an organization's improper practices from outside.

Music Is Love

by Lenny Redon

Remember when rock and roll started, your parents said it was only a fad and it would soon die. Then the Beatles came on the scene, and it became obvious that rock music was here to stay. As rock's popularity spread, it found its way all over the world. There was English rock, American rock and even Latin rock, with its percussion-rhythm framework. Then along comes Santana, and slowly, timbales and congas appeared more frequently in other structures. They weren't solely responsible for the rise in popularity of this structure but they were extremely influential.

Santana's Third Album was released about a month ago (as you probably know) and once again they have done some outstanding work. Their first album was hard-driving Latin rock, rhythm and percussion high lighted the album. They followed this with "Abraxas", which to me was one of the better albums I heard last year. Their third album is of the same name as their first, "Santana", and they seem to have found some new tangents from which to work. Their three albums have followed an interesting and commendable pattern. Their first was hard Latin rock which had a uniqueness which was gratifying. In their second album they retained their rhythm-percussion but toned it down, added more melody and came up with a phenomenal result. In their latest work they've acquired some Latin soul to produce a different sound with the same musical touch what they do is produce a strong rhythm using percussion and bass, and let Carlos Santana and Gregg Rolie fill the rest of it out, which they do with great creativity. They have also added Neal Schoen on guitar who seems to be the perfect compliment to Santana. The percussion is supplied by Jose Areas and Michael Caraballo, Michael Shrive - one of the better drummers - around, and Dave Brown (bass) do more than their share to help out.

The album begins with "Batuka" a piece somewhat reminiscent of their first album, a lot of intertwining percussion, with some stimulating work by Santana and Schoen. "No one to Depend on" follows and sounds a bit like some of Sly's work. It's a well written song, different from what they've done before, but it's still Santana. "TABOO" features some of that Latin soul mentioned before, sliding melodies accented by percussion. Santana does a beautiful lead which makes you wonder why he doesn't receive more recognition. Side one ends with "Toussaint L'Overture", reminiscent of "Abraxas". Areas and Caraballo leading the way, every one else jumping off for a lead here and there.

Side two is not typical Santana, rather it seems to be their latest musical path. On "Every is Everything", the first cut of the side, they use horns, something they have used very little in the past, the vocals also have a different air to them. All in all it's good but very different. "Guajira" and "Jungle Strut" seem more African oriented than before, though they always have had a taste of it before. It's still their same structure but a few differences give it a much different feeling. "Everything is coming our way" is their most diverse tangent, the vocals being one of the major diversities. The structure of the song just isn't what you'd expect to hear from them. It's a nice touch though as it gives a fresher feeling to the overall structure of the album.

You don't hear much about Santana but they have consistently come through with exceptional work. They are accomplished musicians who aren't afraid to experiment with their sound. They once again have done some good work, look into it you'll like it.

Continued from Pg. 1, Col. 2

typical of the traditional rivalry between WPI and BJC. Not only do Tech students raid Becker dorms; but Becker Co-eds often raid fraternities, which are always open, causing as much disturbance or damage as boys do. Raids have never been considered trespassing, although they are often a nuisance.

Swanson introduced witnesses who testified that:

1) Some of the defendants did

participate in the raid.

2) The boys decided beforehand to cause no damage and to take none of the girls' private property.

3) A few days after the raid, the president of Cedar Hall called the fraternity saying that if PKT did not supply a list of names of those involved in the incident, the girls would not be granted parietal privileges.

4) The defendants signed the list as a favor to the girls without being informed that it would be used against them. Two boys who signed were not involved, but signed anyway.

The Court rendered a verdict of not guilty, reasoning that the nature of the traditional rivalry established a standing invitation for such raids. They suggested that BJC and WPI students and officials discuss policy changes concerning raids.



To the Editor:

Your front page article of the October 5 issue of The Tech News on the "Higgins Squabble: Trees vs. Asphalt" was well presented and the objections by students are well understood. Yet the serious nature of the parking problem at the First Baptist Church has been very evident and discussed by church members for a long time. In recent years, the problem has again been brought to the attention of the WPI administration with both the Church and the College knowing that one of the best solutions to the Church parking problem has been the use of College land for parking and particularly the Higgins land. An informal agreement between the Higgins family and the Church for this purpose has existed for a long time. As a member of this Church and Alumni-Trustee, I hope there can be an accommodation to the Church and advantages to the College in solving the parking problem.

The most recent recommendation for certain land use for parking on the Higgins property was made by Moore Associates dated July, 1971 as part of their study on the College's physical property.

Students were advised of this parking plan at the Higgins estate by the College administration upon their return to the campus this Fall and also that the plan was to be considered and acted upon by the Trustees at their next meeting, October 16. Students John Zorabedian and Richard Sojka on behalf of a large segment of the student body, appeared at this latter meeting and reported objections to the proposed parking plan and offered certain alternative parking ideas.

It became obvious that there would be insufficient time to consider fully the Moore Associates plan, the student objections and alternatives at this meeting and the Trustees voted to review all recommendations and reach a decision later on.

Setting a precedent for more hardtopping elsewhere on the Campus was mentioned as a further concern of the students. This is always a possibility, but unlikely. Any plans known to me call for preserving the vast majority of campus flora.

Most of the approximately 250 cars at the Church on a Sunday are obliged to park on nearby streets and this situation has just been complicated by the new traffic islands on Park Avenue at the intersection of Salisbury Street which allows no parking near the islands and requires the some 60 cars that normally park near the intersection to park even further away from the Church. This situation has precipitated further urgency toward a parking solution, preferably prior to winter.

Parking is so important to the Church that it will allocate a significant amount of money to alleviate this handicap and continue to pay for maintenance of the parking area, thus reducing WPI's general maintenance expense.

My thanks to The Tech News and the students for their interest, concern and recommendations. By working together, I expect we can resolve this neighborhood problem to our mutual advantage.

Sincerely yours,
Raymond J. Forkey
Class of 1940, Alumni-Trustee

ESSP — 1971

Summary...

(Second in a series)

First implemented last year, the Environmental Systems Study Program was intended to be far more ambitious meaningful than the other research projects usually conducted at Tech. While there is nothing unique in the project-work approach, it is seldom that students conduct their research with members of different departments, and without their main purpose being the fulfillment of credits necessary in a specific degree-program. Moreover, the project time involved, equivalent to four semesters of independent study, is greater than that of most undergraduate research projects. It would follow, then, that the benefits to be derived from participation in the ESSP are expected to be greater also.

Yet what are these benefits, and have the students who have worked in the ESSP since last February been satisfied with the results? To answer this difficult question, one must first examine the program's setup of groups, projects and schedules.

This year twenty-one WPI undergraduates are undergoing an educational experience considerably different from any previously conducted at the Institute. Last fall, juniors and some sophomores were invited to be considered for participation in a new and extensive project program, the Environmental Systems Study Program (ESSP). Those selected became involved in an intensive study of real-life engineering problems concerned with the environment. In cooperation with five industrial and governmental organizations, project objectives were identified and a mutually agreeable program defined.

The students, self-committed to a one-and-one-half-year involvement, enrolled last spring in a course called **Project Preparation for Solving Environmental Problems**. The course was structured to encourage each student to cultivate his personal abilities for solving problems using an interdisciplinary systems approach. Environmental problems provided the vehicle, and the students worked in three to five-man groups representing at least two disciplinary backgrounds. A limited project—designing components for a home environmental center—was used to gain experience in the project approach and to become familiar with the areas of technology involved in environmental problems.

The students then started to tackle the projects to be studied during the remainder of the program. Teams were formed on the basis of interests, talents and personality compatibilities, and they began to consult with the project advisors and host organizations.

Each group spent the remainder of the course preparing a proposal including a definition of objectives, selection of alternatives, and an organization and implementation plan for examining those alternatives. They presented their proposed plans to their respective organizations and at the conclusion of the semester moved into Phase Two of the program, a 10-week, full-time, one-site internship to implement their plans.

The projects and internships cover a wide spectrum of problems and activities. Although for contractual reasons we cannot identify most of the organizations with which the student groups have worked, here is a brief summary of the summer's activity for each project.



Aeration system

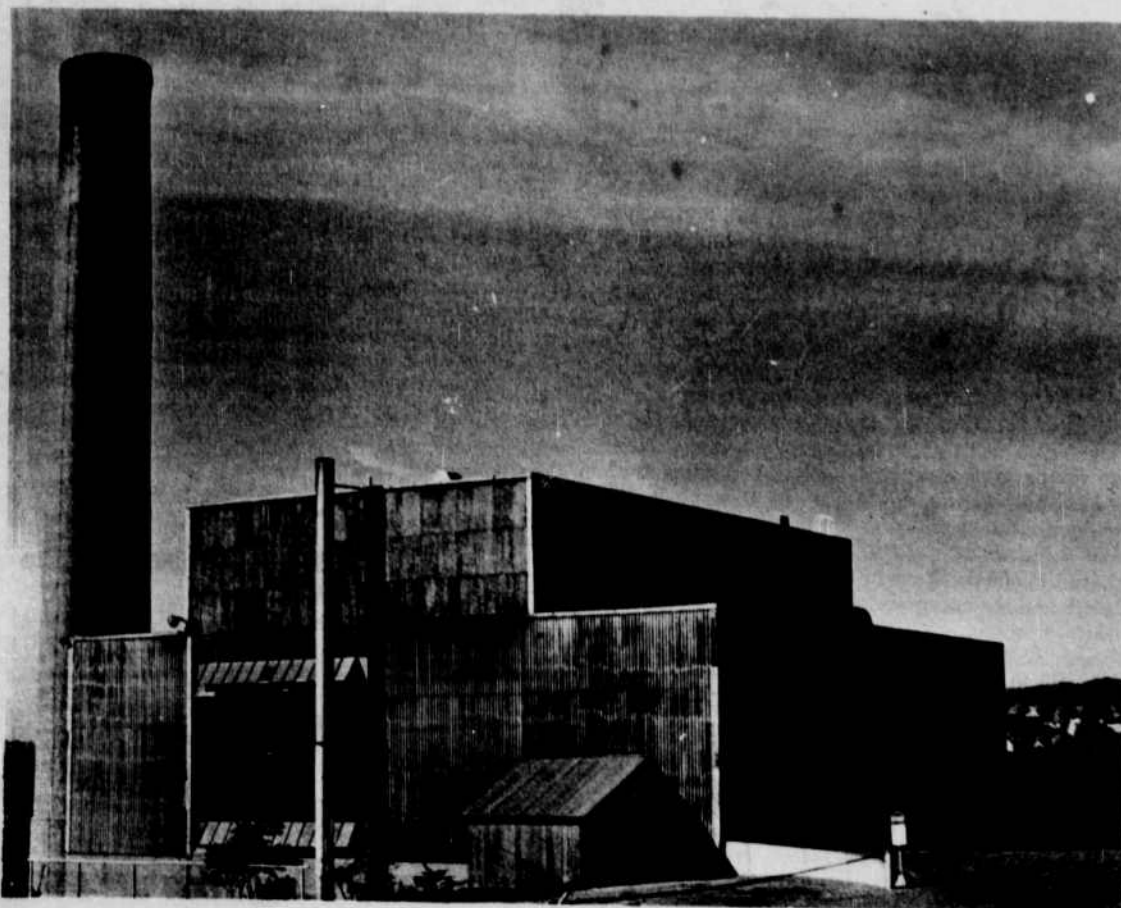
The problem of air pollution resulting from refuse disposal by incineration in the city of Worcester was expanded into a study to develop a solid waste management system of which incineration is an alternative.

The project team of Tom Cusson, Mike D. Benedetto, Lou Ferrares, John Galien and John Minasian are working to construct a decision making model which will allow the city government to systematically evaluate alternatives incorporating such factors as economics, benefits, social preferences, needs, life expectancy etc. The group has spent the summer developing information on the composition of the solid waste, the operation of existing collection services, a determination of attitudes and preferences of the people of Worcester, defining and developing technical information on the various disposal processes and the legal constraints on solid waste disposal and pollution control. A detailed understanding of incineration, compaction, land fill and recycling at the regional and local levels will be combined with the economics of collection, transportation and disposal, weighing each according to the legal and social constraints in the final model to be presented to the city next June.

A project, concerned with the evaluation of a business opportunity related to the improvement of the water quality of rivers and streams, is being conducted by Mark Andrews, Lee Cooper, Brennan McLaughlin and Paul Lacouture. They are blending a business opportunity analysis with the development of the technical capability to provide the basis for a decision on entering a business. The group divided its efforts into two general areas of investigation. An experimental program at WPI's Alden Research Laboratories provided the data for constructing a model. This was installed in a pond, a lagoon, and a river, and a series of experiments were conducted. At the same time a preliminary marketing survey was made and information was developed to allow a more complete investigation of the market potential. The technical data and market potential will provide the basis for developing a product design. An analysis of the extent of the business opportunity, the strengths necessary to succeed, and the relative position of the company at present will then provide the basis for a recommendation on whether or not to pursue this potential opportunity.

Roy Lampinski, Ray Roberge and Tom Reynolds are involved in a project with a manufacturing firm concerned with controlling emissions from stationary combustion chambers. The objectives are centered on the design of a model capable of being fired with several types of fuel. Work to date has provided scaling laws and a mathematical model, site evaluation and selection, and an acceptable manner of heat rejection. Instrumentation and equipment are being designed and sized and space requirements determined. Once the model has been designed and constructed, an experimental program will be conducted to provide the data for detailed furnace sizing and geometry. An overall error analysis will assist in evaluating the design parameters.

Steve Banks, Dave Martin and Pete Bertasi have a project with a specialty paper converting company concerned with developing alternatives for the abatement of atmospheric pollution from a coating process. Data on the composition of the exhausts and the legal constraints which are applicable are being determined.



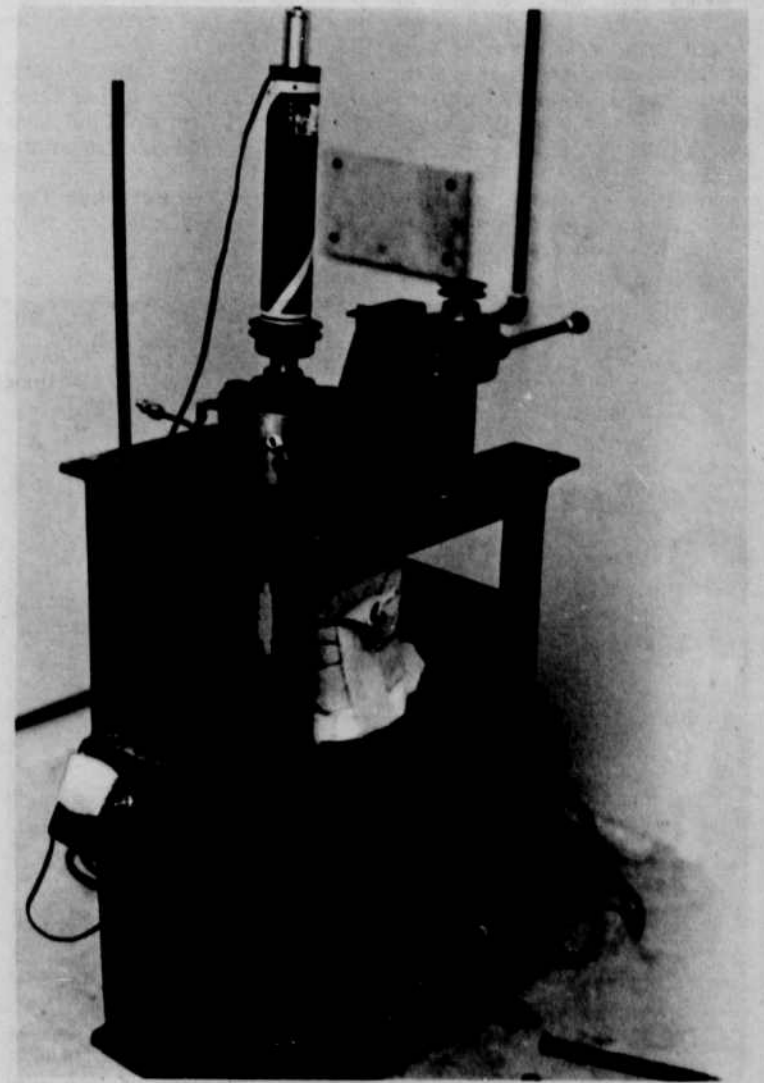
Worcester Incinerator, site of an ESSP Pollution Control investigation.

...and Evaluation

The students, having completed their internship, will enroll in a projects course each semester during their senior year and continue to research and design alternative solutions to these problems. They will continue frequent interaction with their host organizations and participation in special seminars, workshops, etc. At the end of the senior year a complete report, written and oral, will be made to the host organizations and the WPI faculty.

After all this, the question still remains as to just what led the participants to enter into the program in the first place and what they intended to gain from it. Discussions with group members revealed many different motives. Part of the program's appeal lay in its novelty and the fact that its emphasis was on current environmental problems. Despite the number of courses in this area Tech presently offers, the school still lacks a degree program in environmental studies. For students who had entered the established departments but had a strong interest in the ecology movement. The ESSP provides a chance to further this interest while operating out of their own degree-department. Yet many projects concerned with environmental affairs have been conducted entirely within separate departments such as Civil Engineering, Mechanical Engineering, Chemical Engineering, etc. Why then would one join a program that requires a greater background than any one student possesses, so that each member is dependent upon the abilities of other group members?

Roy Lampinski, a member of the NO emissions group, said that he purposely entered the program because he liked the idea of working in interdepartmental groups. This arrangement provides a situation closer to the actual heterogeneous project teams encountered in industrial research. Lampinski said the more intensive study and complex problems presented another attraction for him.



Activated Sludge Reactor in Goddard Hall.

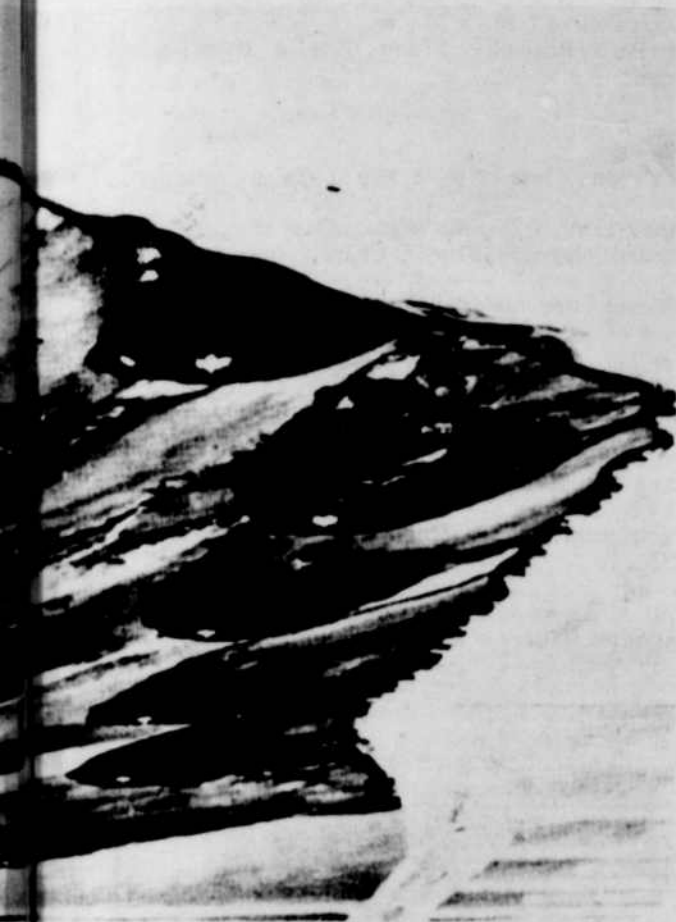
Roy went on to say that the prospect of a summer job offered as part of the project did not enter into his decision to apply, and that he doubted if other members of the group were greatly influenced by this. To him the project's main selling point was that the problem he would tackle was a very real one which he was sure of being able to pursue for the allotted time. He explained that when a student conceives of an independent study project, he must find an advisor who will accept the guidance role for the project, arrange for the procurement of the necessary facilities and funds, and do all his own investigating for information lacking in his background. The ESSP has taken care of these details and provides the student with a research topic he can see through for almost two years.

To some members the best part of the program was the responsibility they held as students working for a company or organization on a problem of considerable concern to those institutions. However, some participants were more pleased than others over the reception they received from the companies when they presented themselves as serious researchers. For the most part, their work and ideas had earned the respect of their employers by the end of the summer.

The long range benefits of this experience working in investigating for firms is difficult to evaluate and difficult for the students to explain. Obviously, they had gained valuable experience in engineering situations not unlike those they may encounter after graduation. The advantage of the ESSP approach comes from learning to work closely with others on difficult problems and being directly responsible to an employer. Moreover, they could see tangible results of their efforts as the company began implementation of their proposals, giving them an opportunity to discover how accurate their calculations and conclusions had been. Finally, the participants had the satisfaction of knowing that their work benefits not only themselves and their respective employers, but also the outside community which has been bothered by the polluted air or water in their midst.

Mr. Joseph Mielinski, administrative assistant for the ESSP, was able to supply some information on the original reasons for offering such a program. For some, the ESSP presented a prototype of the study work involved under the Tech plan. Also, the program is useful in solving, or at least helping to solve, important environmental problems. Finally, the program provides practical engineering experience in a field that is relevant but not widely organized.

Certainly the ESSP goes a long way towards eliminating the lack of extensive course offerings in environmental studies. Furthermore, this type of long range program offers a more thorough job experience for those who desire it. When one considers that ESSP's greatest contribution may be in actually doing something about pollution, it comes off as a very worthwhile program.



emitting in a lagoon.

An investigation of processes such as condensation, adsorption, absorption, incineration and other innovative approaches is being conducted to provide a detailed analysis of feasible technical alternatives and the economic constraints involved.

A project is being conducted in cooperation with a state agency to explore innovative techniques for sludge disposal at a treatment plant. A variety of experiments were designed and run during the summer to develop information necessary for the evaluation of methods. A special experimental unit was designed, constructed, and operated to demonstrate the feasibility of new technology and the foundation for a continuing research program was established. On this project team are Jim Ciskowski, Ken Carlson, Pat LaFayette, Bob Rogers and Joe Bianca.



Paul Lacouture takes a water sample to test for dissolved oxygen.

Zoto's Back Again

Born in Sturbridge, Tom and Paul Zotos are members of an Albanian family that has been making their own stringed instruments for hundreds of years. These stringed instruments were designed and built for the use of the family members, and as gifts for close friends. The process of crafting an instrument to produce a firm rich tone was passed on from father to son as a family secret, crossing the Atlantic in the

latter part of the last century. Until a few years ago, the Zotos stringed acoustical instruments were only heard by members of the family now living in this country and the family friends.

Thus, as some fathers teach their sons to throw a ball or catch with a glove, Tom and Paul were taught to play the guitar from the age of five.

Through the years, while Tom continued with the guitar, Paul

went on to play Albanian and Congo drums. Tom became a fine session musician and appeared by himself at the Newport Folk Festival Hootenany. Brother Paul joined him shortly thereafter and they spent the summer in Provincetown. It was here where they got their first opportunity to play together in public and it was also here that they befriended Richie Havens. On his advice they split for the west coast, living in a Volkswagen bus, living from day to day, playing for meals and selling practically everything in order to survive.

At the end of the year, they returned home to study their father's trade, setting aside for the moment playing for the public. They survived the next year by repairing guitars in their workshop and by running community programs for the town. All their free time was spent studying their craft.

It takes on the average, three months, working 12 to 14 hours a day to design and build a Zotos stringed acoustical instrument. The two brothers have now built ten guitars, but unlike the other Zotos craftsmen, Paul and Tom have played their instruments beyond the confines of a small town or village. Their work has earned the praise of the likes of Carlos Montoya and his wife.

Scheduled to appear last Saturday night for Homecoming, they were cancelled due to a mixup and by the whims of Al Kooper. They have agreed, though, to give a special performance this Friday night, October 29th, at the Friday the 13th Coffeehouse.

The coffeehouse is downstairs in Sanford Riley Hall. The show will start at 8 p.m. Wine will be sold and refreshments will be served. Admission is free.



Tuesday, October 26

Lecture on Mozart (2nd of series) by John Burke, Girls "B" Dorm Lounge, Assumption College 7:30 - 9:30 p.m.

John Beecher's Poetry Reading - 7:30 p.m., Girls "A" Dorm Lounge, Assumption College.

Wednesday, October 27

John Beecher's Poetry Class - 3:00 - 5:30 p.m., Salon - Assumption College

Film: *The Great Thaw*, 7:30 p.m., Assumption Auditorium.

Lecture by Russell Johnson: his stay in China, 8:00 p.m., Assumption cafeteria.

Film: "Civilization - New Materialism", Assumption Auditorium

Thursday, October 28

Film: *Maier Barbara*, 7:30 p.m. Alden, WPI.

Friday, October 29

Mixer: featuring Fate, 8:00 p.m., Anna Maria College, Auditorium

Frid DELETE

"Friday the Thirteenth", Coffee House, 8:00 p.m. WPI

Saturday, October 30

Cinematech IIIB *An American in Paris*, Alden, 8:00 p.m., WPI

Film: *Sudden Terror & Diary of a Madman*, 8:00 p.m., Assumption College

Sunday, October 31

Halloween Horror Flicks, 10:00 p.m., Alden, WPI



Museum Membership

For the first time in its history the Worcester Art Museum is offering a student membership. The Museum is anxious to encourage students to fully participate in its many programs and activities. The student membership is set at \$8.00, instead of the usual \$12.00 rate for a single member. The student membership carries the complete privileges for the entire year which begins September 1 at the Museum.

Membership entitles the student to attend three series of members' films this year, as well as a special bonus film series being offered this fall. The members' series include the group entitled "Did You See ...?" which bring six international classics of the last two decades to the Museum. The first film in that series, "Gate of Hell" will be presented on October 28. "Nostalgia with a Star ... Merle Oberon" will present four of her most famous films beginning October 19 and 20. An additional members' series will examine the New Cinema, short films from around the world which have all been produced recently.

A bonus film offering this fall will present "Museum Without Walls", a unique film series which provides an international art experience through the motion picture camera. The five programs include studies of the works of Goya, Picasso, Giotto and Le Corbusier. Art supervisor for the series was the well-known British art historian and writer, Douglas Cooper. There will be an

admission charge, although considerably less for Members. Members' series tickets are on sale at the Sales Desk and the Education Division at \$4.00. Single tickets for members are \$1 and for non-members \$2. The program begins on October 26.

Museum members are also invited to attend previews of major art exhibitions. They receive a monthly calendar which keeps them informed of special activities for members as well as the Museum's public programs of lectures, films and concerts. Members of the Museum may take classes in studio instruction as well as seminars in the history of art.

Museum members also receive a 15% discount at the Sales Desk which carries a large selection of

books, gifts, reproductions, jewelry and note papers. There are also special trips planned for members, including a weekend trip to Old Philadelphia, and a two-week study-excursion to Florence, this spring.

Students who are interested in the special student membership should come in or telephone the Museum. (752-4678). The Museum is located at 55 Salisbury Street, just several blocks from Lincoln Square.

Financial Aid Information

Second Semester
Emergency Loans

National Defense
Student Loans

College
Work-Study
Program

Applications will be
available

Monday, November 1, 1971

Room 304, Boynton Hall

Deadline for return of
applications is December
1, 1971



music productions presents

The Allman Brothers

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Lighthouse

Thurs., Nov. 18 7:30 p.m.

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Mail order: Check or money order with stamped, self-addressed envelope to: Worcester Auditorium, Worcester Mass. 01608.

Also

Nov. 3 - Fleetwood Mac & Deep Purple - Music Hall, Boston
Nov. 8 - Jeff Beck - Music Hall, Boston

Call Music Productions 617-262-6666 for info.

SENIORS:

A representative of Columbia Graduate School of Business will be on campus to interview interested students on Nov. 17 from 1:00-4:00 p.m. in the Placement Office.

Winter

Mountaineering

Expedition

Watch your mailboxes if you have signed up for this Intersession Course. You will be receiving information in the mail and a questionnaire which you must return to Dr. Stevenson or Dr. Wagner by November 5, 1972 or you will be dropped from the course. This includes those who have already seen Dr. Stevenson or Dr. Wagner.

W.P.I.'s
Military Ball
Dec. 3rd

Alumni Feedback:

Graduates Do Make It Big

by Lee Small

Over the years there has evolved the popular misconception that WPI graduates seldom achieve professional success greater than the level of "middle management". Possibly this notion stems from the belief that a Tech engineer's education is too parochial, too practical. However, the careers and achievements of many Tech alumni serve to dispel this myth. Indeed, WPI boasts a truly impressive list of eminent alumni.

Among the most noteworthy of Worcester Tech's highly successful graduates is Arthur E. Smith, Chairman of the Executive Committee of the United Aircraft Corporation in Hartford, Conn. Mr. Smith, who received his Bachelor of Science degree in Mechanical Engineering (aero-option) in 1933, began his career as a test engineer for International Motors in Allentown, Pennsylvania. Two years later he joined the Pratt & Whitney Aircraft Company, a division of United Aircraft, in the same capacity. In 1942, Mr. Smith began his non-stop climb to the top with a well-deserved promotion to the position of Chief Engineer at the wartime plant in Kansas City, Missouri. In the last 15 years, Arthur Smith rose rapidly within the Pratt & Whitney Company and thereafter within the United Aircraft Corporation itself. By 1956 he was the Executive Vice-President of Pratt & Whitney. After serving as president of the division for one year, he became in 1968, the executive vice-president and then president of the entire United Aircraft Corporation. Mr. Smith's latest achievement, appointment to the position of chairman of the executive committee, became effective as of September 27 of this year.

However, Mr. Smith's achievements can not be measured by his professional accomplishments alone. Among the variety of organizations of which he currently serves as a director are United Aircraft of Canada, Ltd.; United Aircraft International, Orenda, Ltd.; Conn. Bank and Trust Co.; Manchester Memorial Hospital; and the Greater Hartford Community Chest. In addition, Smith is a member of the National Aerospace Association, the Manchester Redevelopment Agency, and the Engineering Advisory Committee of the University of Hartford and is currently a term trustee of Rensselaer Polytechnic Institute in New York.

In 1967 WPI presented Mr. Smith with the Robert H. Goddard Award, which is given annually to an alumnus for "outstanding professional accomplishment in his field". On June 8, 1969, he was awarded an honorary degree of doctor of engineering by Worcester Polytechnic Institute.

Throughout the years, Mr. Smith has maintained close ties with his Alma Mater. His great concern for education and esteem for WPI are perhaps best illustrated by the following statement which is an excerpt from a 1967 letter by Arthur Smith to President Storke:

It is always hard to measure the effect of education on an individual's ability. Certainly the basic attitude developed during the college years is as important as the education received. In this connection, a school such as Worcester Tech, which has kept in perspective its basic responsibility of educating and training its students rather than working for the glorification of the school, has been one of the principal reasons in my opinion that its graduates have done so well in their chosen professions. I am sure the attitude of the faculty and the atmosphere created by the administration of the school plays a large contribution to this success.

In a recent interview with Mr. Smith, he indicated that he feels the WPI Plan is the "right approach to an engineering education" but like many others, he seems to be withholding enthusiasm until the Plan has substantially proven itself. He noted that the success of failure of the Plan rests largely with the individual advisors--and most especially with the problem of motivation. Mr. Smith also indicated that communication must play a key role in the success of the Plan. He feels that the school has a responsibility to better acquaint both the alumni and the business world with the workings of the Plan.

As far as the role of the alumni is concerned, Arthur Smith maintains that they have an obligation "to give financial support" and "to take part in the direction of the school". He feels however that the alumni should not attempt to "run" the school. On the other hand, he feels that the students should not run the school either. When asked how he felt about having a student member on the Board of Trustees, Mr. Smith said that "a student does not belong as a voting member", but that there should be a student advisory group to insure that the Trustees are aware of student concerns and opinions. He stated that it is "hard (for students) to be objective about the long-term interests" of the school.

In another vein of conversation, Mr. Smith expressed the belief that athletics play an important role in the shaping of the individual, for it is through organized sport that one learns not only how to get along with people but also to accept failures along with success.

When asked if he believed companies should give special considerations to women or minority groups when hiring, Smith said that "you should hire the person most capable of doing the job you have for them to do". He did indicate, however, that there were a few exceptions to this. As far as women are concerned, Smith feels that if they can contribute, then they should be given every opportunity to do so.

Mr. Smith feels many employers like to hire the man who received his education after being in the armed services. This individual seems to know better what he wants and in what direction he's headed. Mr. Smith stated that those men who get their education and then go into the service are sometimes at a disadvantage in being away from their discipline for such a long time (unless, of course, they happen to be involved in engineering while in the service). Smith does feel, though, that serving as an officer provides one with good experience as far as management is concerned.

When asked to what he attributed his great success, Mr. Smith said, "I suppose you'd like me to say my education from WPI?" After assuring him that all that was wanted was an honest answer, he agreed that WPI had given him an excellent background but that he attributed his success to a lot of hard work and a little bit of being in the right place at the right time.

Smith further stated that five years after graduation, where you are is determined largely by what you have done on the job and not so much by what you did in school. He feels that the education itself is of greatest importance in getting offers and opening the right doors.



Mr. Smith does not feel that the engineers should have to take all the blame for the ecological problems of today. "Engineers have always responded to what the public wants". Now that the emphasis is on clean air and clean water, Smith is assured that the engineers will respond, but that there is bound to be a time lag. According to Smith, "People know what they want but are not able to evaluate what they want to pay for it."

Arthur E. Smith is a warm and personable man who remains unaffected by his tremendous achievements. Talking to Mr. Smith is like talking to the man next-door. He is truly a credit to himself and a credit to WPI.

Worcester Crisis Center

Any one interested in obtaining information about the Crisis Center and/or the next training program should contact Paul R. Plotczyk at 162 Chandler St. phone 799-2753 or 791-6562.

Some information about the Center is with Mrs. Dix, Boynton 206.

What Is AA?

by Lenny Polizotto

Each year, Alumni of W.P.I. help to recruit good high school students, award several scholarships to undergraduate students and distinguish outstanding alumni for service and contribution to W.P.I. and to the community and society.

What is the Alumni Association? Why should you care about it? Well, since all of you, hopefully, will become alumni in a few years, it might be helpful if you were informed about what is going on with the alumni association, who are some prominent graduates of W.P.I., and what views do individual alumni have on matters with which you are presently concerned. It is the purpose of this column to try and provide you with information about the above and other matters concerning alumni and alumni activities.

There is a need for mutual co-operation between WPI and its alumni. The school needs alumni for support in such areas as providing projects for the W.P.I. Plan, intersession programs, athletics, frater-

nities, freshmen recruitment, finances and to better student alumni relations. The Alumni need the school for further contacts for job opportunities, to further their education (such as during intersession), to provide to others the opportunities they had at W.P.I., and to have some good old pride in the institution that framed their future.

To better achieve the above-mentioned mutual co-operation, the Alumni Association is in the process of reorganization. Recent graduates have been elected and are actively involved in administrative affairs of the organization while more efficient ways to handle such things as alumni records and the handling of funds have been proposed.

The Alumni Association, like the school, is trying to improve in any way it can to better satisfy the needs of graduates and to help the school. If you are interested in further information regarding the Alumni Association and some things you might be able to help with as an undergraduate, feel free to contact Steve Hebert in Boynton.



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WPI'S WIDE WORLD SPORTS

Cadets Nip Tech, 31-23

Last Saturday, Worcester Tech sought its third straight victory and a chance to bring its record to .500. However, they ran into a rugged Coast Guard Academy team and fell before the Cadets by a 31 to 23 count.

For the New London team, it was defense that saved the day. W.P.I., trailing by the eight point margin of victory, was driving down the field late in the fourth quarter, only to be beaten by the Coast Guard defense and the clock.

The Engineers had many golden opportunities in the first half, but were able to produce only 2 points, those by virtue of a safety. The game was marked by a fantastic display of pass receiving on the part of W.P.I.'s All-New England candidate Jimmy Buell. The slender junior hauled in 13 Steve Joseph aeriels for a yardage production of 183. Many of his receptions were the diving and leaping variety and left many of the spectators awe-struck.

Quarterback Joseph had a fine day, too, as he completed 21 passes in 46 attempts. For the 21 completions, he amassed 305 yards and three T.D. tosses. Unfortunately, Coast Guard defenders picked off three of "Joe's" passes.

For the first time in awhile, the Tech ground game was held under 100 yards. The Guard front four can claim much of the credit for this statistic. In addition, big Steve Slavick, the junior fullback, was injured on the opening play of the game with an ankle sprain and that seemed to cost the Engineers valuable yardage for their ground attack.

The first half was marked with sustained Tech drives that were eventually stalled inside the enemy 10 by the stingy Coast Guard defense. On no less than three occasions, the Engineers faced fourth down and short yardage situations, only to be denied by the onrushing Cadet defense. Then, even though they hadn't scored, the Engineers were unable to force Coast Guard to punt from the shadows of their own goal post.

Coast Guard was able to score the first time they gained possession of the ball. This, added to a 37 yard field goal by Steve

Ciccalone, gave the Cadets a 10-0 lead after the opening period.

The only scoring in the second session was the safety by W.P.I., when co-captain Jeff Petry nailed the Guard signal-caller in the end zone for two points. The scoreboard at half-time showed: Coast Guard 10, W.P.I. 2.

One can't help but wonder that if Slavick had not been injured, the short yardage situations at the Coast Guard goal line may have resulted in some W.P.I. scoring and the entire complexion of the game would have been different. But performance wins games, not speculation.....

Coming out after the halftime recess, Coast Guard exploded to an apparently insurmountable 31-10 lead with only eight minutes left in the game. Buell had connected on 16 yard play with Joseph for Tech's first T.D.

STATISTICS		
	Tech	C. G.
First downs	23	21
First downs rushing	7	12
First downs passing	12	9
First downs penalties	4	0
Total yardage	401	401
Yards gained rushing	96	199
Passing	21-46 313-191	
Yards gained passing	305	202
Fumbles	1	5
Fumbles lost	1	2
Punting	5-36	5-31
Penalties	5-43	9-105

With an uphill battle facing them, the Engineers got possession of the ball and began to click. "Joe" connected on two tosses to the sensational Buell. Wayne Pitts took a pass from the W.P.I. quarterback and scooted down the sidelines to complete a 30 yard score and Tech trailed 31-17 with 6:58 remaining.

Shortly thereafter, linebacker John O'Donnell intercepted a Cadet pass and returned it to the enemy 20.

Two plays late, Joseph passed to Charlie Deschenes on the ten and the shifty halfback reversed his field and raced into the end zone to make the count, 31-23 with 5:26 left. Here, Tech gambled on a two-point conversion, but were stopped short.

Booters Win City Title

The WPI soccer team won the City of Worcester Soccer Championship when it shut out Assumption College 4-0, thus completing it's romp over city rivals Holy Cross, Clark, & Assumption.

Tech's Bill Gemmer scored the only two goals of the opening period, first by heading in a cross from Gus Boucher, then laying a foot on a Rex Kern pass. Jack Blaisdell tallied first in the second quarter, when he perfectly placed the ball in the far corner, unassisted. Gus rapped up the scoring when he got a head on a Jim O'Bray corner kick. The nets went untouched in the final half.

Assumption really couldn't be considered a formidable opponent, as can be gathered from their mere 10 shots on goal (WPI had 37 attempts), necessitating a total of only four saves for goal keepers Mark Frodyma & Tom Terkanian. The Tech booters traveled to the Coast Guard Academy on

Saturday, only to have their winning streak snapped at three games, as they were up-set by the bears 0-1.

The teams seemed evenly matched with neither demonstrating much in the way of scoring potential. Together they didn't take twenty shots. The only scoring was on a direct kick by one of CGA's co-captains, aided by WPI's failure to set up a wall, in the second period.

Tech finally came to life in the last quarter, putting on what could best be described as a press, but the Engineers were not destined to tie it up. They even missed a penalty kick in the third period.

Steve Williams was the defensive stand out for the Tech men, with Don Bucci and Bucky Kashiwa also making their presence known.

The booters last home game of the season will be this Wednesday at 2:30 against a tough, fifth ranked in New England, University of Massachusetts soccer team.



"Wayne Pitts (#28) grinds out yardage against Coast Guard."

The thrills weren't over yet for the predominantly Coast Guard oriented crowd.

The Cadets took the ensuing kickoff and drove to the WPI nine before Tech's Jack Fitzgibbons recovered an errant hand-off with just 1:54 showing on the clock.

Joseph then drove the team down the field, ably mixing runs with passes to Buell until there were only seven seconds left on the clock with W.P.I. on the Guard 30.

"Joe" faked to Buell, and found flanker Tom Staehr free and hit him. Staehr was stopped short on the 16 and Tech's gallant comeback had gone for naught.

The victory brought Coast Guard's record to 6-1, while Tech slipped to 2-4. With two games remaining, the Engineers must win both to finish at .500.

Coast Guard		10	0	7	14	31
Tech		0	2	8	13	2
First Period: Coast Guard, Pendergrass 5 run (Ciccalone kick) 10:37; Coast Guard, Ciccalone 37 field goal 1:44.						
Second Period: WPI - Petry tackled Howard in end zone, 3:06						
Third Period: Coast Guard, Powell 39 yd pass from Howard (Ciccalone kick) 13:30; WPI, Buell 16 pass from Joseph (Pitts pass from Joseph) 8:28.						
Fourth Period: Coast Guard, Jaworski 1 run (Ciccalone kick) 12:00; Coast Guard, Kishman 5 run (Ciccalone kick) 8:02; WPI, Pitts 30 pass from Joseph (Aubrey kick) 6:58; WPI, Deschenes 20 pass from Joseph (Pass failed) 5:26.						

COAST GUARD (31)	
Ends - Hein, Rice, Stratton, Ziomek	
Tackles - Papp, Collier, Curcock	
Guards - Rutkovsky, Clark, Fish, Foley, Brooks, Dupree	
Centers - Gipson, Arnold, Ryan	
Quarterbacks - Howard, Moore	
Halfbacks - Powell, Pendergrass, Kishman	
Fullback - Johnson	
Linebackers - Brown, Seebald, Loerzel, Floyd, Laia	
Defensive Backs - Coy, Rzemieniewski	
Kicker - Ciccalone	

WORCESTER TECH (23)	
Ends - Buell, Staehr, Noblin, Briggs, Asaro, Fitzgibbons	
Tackles - Colonero, Beverly, Cuth, LaVallee, Cawley, Cordella	
Guards - Nunes, Moquin, Whipp, Al-viti	
Centers - Cormier, Irwin	
Quarterbacks - Joseph, Schwartz	
Halfbacks - Deschenes, Pitts, Paris, Simon	
Fullbacks - Slavick, DeJackome	
Linebackers - O'Donnell, Petry, Daly, McLaughlin, Bukowski, Drew	
Defensive Backs - Crossen, Beckman, Spence, Palumbo, Ferraresi	
Kicker - Aubrey	

Harriers Triumph Up Mark To 6 - 3

Coming off a big victory over Brandeis on Wednesday afternoon, the Tech cross-country team let down a little on Saturday in a tri-meet with Amherst and Bentley but still managed to win.

In the meet against Brandeis, Mike Malone got his revenge and beat Marty Rivera but in doing so, Mike reinjured his leg. Brandeis also got third place but then Fran O'Connell, Chris Keenan, Dick Stockdale, Andy Murch, Dick Filippetti, and Dave Fowler came across in that order before Brandeis got the next three places. This meet really showed how physced Tech was as no fewer than ten of our harriers, including six of the above mentioned, set an individual best time on the 4.3 mile Tech course. In what was to have been a close meet turned out into a lopsided 23-38 victory for Tech.

Then, on Saturday, Amherst, who we haven't beaten in years and who were supposed to be pretty strong this year, along with Bentley, which isn't too good, traveled here. Malone started the race but was forced to drop out of the race early because of his injured leg. Perry, from Amherst, won the race followed by Pieser of Bentley and Hart of Amherst. This really put the pressure on Tech but although everyone ran a little slower than usual, we took the next seven places and won easily. O'Connell was the first Tech finisher, followed by Keenan, Stockdale, Hoyt, Filippetti and Murch. The final score was WPI 30, Amherst 40, and Bentley 72. This race showed how good Tech is now because everyone ran poorly but they still beat a supposed better Amherst team quite easily.

The harriers have the whole week off before going to Coast Guard for a meet with them and Williams on next Saturday. Then, on the following Tuesday, they'll meet Trinity here at Tech for their last meet of the year before they go to the New Englands at Franklin Park. How about a few more fans at that meet with Trinity!!

UPCOMING SPORTS EVENTS...

- Wednesday, Oct. 27
Varsity Soccer, WPI vs. U Mass, 2:30 p.m., Home.
Junior Varsity Soccer, WPI vs. Worcester Academy, 3:00 p.m., Away.
- Saturday, Oct. 30
Varsity Cross Country, WPI vs. Coast Guard & Williams, 12:30 p.m., Away.
Varsity Soccer, WPI vs. A.I.C., 2:00 p.m., Away.

Intramural Volleyball

The regular volleyball season has ended and playoffs begin Tuesday, Oct. 26. At 6:45, PKT, winner of the Boynton League, plays Stoddard A who finished second in the Salisbury League. At 7:45, SAE, winner of the Salisbury League, plays PGD second-place finishers of the Boynton League. The winners of each match will play on Thursday in the finals. Here is the standings at the end of the regular season:

FINAL STANDINGS	
Boynton League	
1. PKT	9-0
2. PGD	8-1
3. ATO	6-3
4. Higgins	5-4
5. Morgan 3rd	4-5
6. LCA	3-6
7. PSK	3-6
8. Morgan 4th	2-7
9. Reamers	2-7
10. TC	2-7
Salisbury League	
1. SAE	9-0
2. Stoddard A	8-1
3. SPE	7-3
4. DST	4-4
5. TKE	4-5
6. Stoddard B	3-6
7. Daniels 2nd	3-6
8. SP	2-7
9. AEP	2-7
10. Daniels 4th	2-7

THE PUB

Wednesday

Pizza &

Slimey Dimey